

DUAL-BAND ANTENNA

5 TECHNICAL FIELD

T.H. This application is a 371 of PCT/CH03/00228 filed on 04/08/2003.

The present invention relates to the field of antenna technology. It relates to a dual-band antenna as claimed in the preamble of claim 1.

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Such a dual-band antenna is known, for example, from the printed document US-A-6,239,750.

PRIOR ART

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The rising demand for data to be transmitted in the area of mobile radio has led to the definition of the UMTS (Universal Mobile Telecommunication System) standard in the past. Applications based on this standard require a new mobile radio network. A component of this network are antennas which must also be newly developed since the UMTS standard is based on new frequency ranges for transmitting and receiving. The previous mobile radio networks according to the conventional GSM 900/1800 standard, and a number of other networks conforming to other standards, will continue to be operated in parallel with the newly created UMTS standard for a period which cannot yet be predicted. To achieve the construction of a UMTS network which is as rapid as possible, network operators are interested in using existing antenna sites both for the existing networks and to be integrated into the new UMTS network. The development of antennas which cover both the frequency ranges of existing networks and the UMTS frequency ranges enables network operators to shorten the time for the licensing procedures or to cut it out altogether. Furthermore, it is possible to assume that the public acceptance of an

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